

# SEQUENCE LISTING

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 Ophoff, Roel Andre

<120> GENE RELATED TO MIGRAINE IN MAN

<130> VEOC.003.01US

<140> 09/269,446

<141> 1999-03-26

<150> PCT/NL97/00538

<151> 1997-09-26

<150> EP 96202707.4

<151> 1996-09-26

<160> 146

<170> PatentIn version 3.0

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cctatagctc catgttcac cgtgccacga ccaaccctgt agtatggccc ccgagcagag	240
ggcagggggg gctgggtctc ccaccagggt ggcggaannn nnnnnnnnnn nnnnnnnctc	300
ccaccagggt ggcggaagtc aggccagatt agagggcaat	340

<210> 20  
 <211> 477  
 <212> DNA  
 <213> human

<400> 20	
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ctgagtggac ctctgcacgc ccattctgtct ccaacagcct tcgccgcctg tgccattaca	120
tcctgaacct gcgctacttt gagatgtgca tcctcatggt cattgccatg agcagcatcg	180
ccctggccgc cgaggaccct gtgcagccca acgcacctcg gaacaacgtg agtcccacag	240
agcacacccc ttctagcct ggctgctctg cctcaggcca ctttctcctg catccaaaat	300
gctcataggt aggggtggat gttgggggtca ccctaggca tagcccttat ggctgctggt	360
tgagagggga agctctgatt ccttggggat gctcttggga gcaagacatt ccttgaggca	420
gtttctctgt gagcctggtg ggggtggaggt ggcccagagt gactggggct gaaaatt	477

<210> 21  
 <211> 168  
 <212> DNA  
 <213> human

<400> 21  
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 acaggcgtct ttacctttga gatggtgac aaggtgagt cagattataa gtgagaacac 120  
 acggttaattt ttttttttaa gcaagtgcag ggctgggcac agtggatc 168

<210> 22  
 <211> 368  
 <212> DNA  
 <213> human

<400> 22  
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 aggtggcctc attggcttcc ctgcctctcc ccgagaggct agagagtggg tggcagcacc 180  
 ccagggtggg gatcaggtgg gggttctgag caccctctct tctccccac agatgattga 240  
 cctggggctc gtctgcac aggggtgcta cttccgtgac ctctggaata ttctcgactt 300  
 catagtggtc agtggggccc tggtagcctt tgccttcacg taagtctctt cgcaagggtt 360  
 tcctcttg 368

<210> 23  
 <211> 515  
 <212> DNA  
 <213> human

<400> 23  
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 aggtcagctc actttactgc catctgctgg gaagttgtaa taatacaa atccatacac 120  
 gatggctagg atgttatcag cacctccttt aatgtgttgt ccttgagcag tgtacaacct 180  
 gctcagctgt acatgataac cctgacagtc cccccaccg cccccacca tctcccaatc 240  
 tcaccttgag ctttggcagc cgcttgatgg ttttaagagg tcgtagcacc cggaggactc 300  
 ggagggattt aatcgtgttg atgtcttttc ctttgctatt gccactgtgg aggaatgttt 360  
 aggtgggaag aagggaagag aggaagcaga ggtcaggttg ggtagggggc agcccacagc 420  
 tccatgggac cctacccttc ccaggcctag aagtctgggg tgagcttggc acaagcctgc 480

cctttcctgg tgaagagtgg tccattttac cctgt 515

<210> 24  
 <211> 406  
 <212> DNA  
 <213> human

<400> 24  
 ggccactgga ggcagaaggt tggcaggtcc ccagcccctc atgctctctg tcaactccac 60  
 cccacagget gtgtttgact gtgtggtgaa ctcaactaaa aacgtcttca acatcctcat 120  
 cgtctacatg ctattcatgt tcatcttcgc cgtggtggct gtgcagctct tcaaggggaa 180  
 attcttccac tgcactgacg agtccaaaga gtttgagaaa gattgtcggg gggctctccgc 240  
 tttccagcac attcccattg gaaccagcag gtgggcaggg gggaagtggc tagaggcatt 300  
 ggccacttgg gctcagagac tggagaagtg atgagccttg gaagtgactc agttgcaacc 360  
 agcttggatc aagggtagaa agaaaaccgg ttttagaatt tgagtc 406

<210> 25  
 <211> 516  
 <212> DNA  
 <213> human

<220>  
 <221> Unsure  
 <222> (421)..(516)  
 <223> n = g, a, c, t or u

<400> 25  
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 acaggcgtga gcaccatgcc cggcctccaa gacctttctt attgctaagc tctcaggccc 120  
 tttatcctcc tgetccccag ggctcctcct ggatagattt ccagtcgggc cacttactgt 180  
 ggccagcctt ctcccgtgga cacggtgaag agggtcagca gagcccacag cacattgtcg 240  
 taatggaatt catacttctt ccaactcccgg tctcgcgcct tcacctcatt cttctcgtag 300  
 aggaggtatt tgcctctgcc acagagagtg gggactgtta gtaaatggga aagaggggct 360  
 gtcttgact tgtctttggt tatcagagac agggggaggg aaaggaagag tgggccacca 420  
 ncctagactg cttgggaagc agtgacttcc catcctgcca ccatgtgttc ctgtgcttca 480  
 taggggatgn cgtgtgcaat ctacttttna ggataa 516

<210> 26  
 <211> 489

<212> DNA  
<213> human

<400> 26  
accttcctca tcacccttgg gtccctgtct ctctccttcc tgccccttcc ctctccctgc 60  
cccattectt gcagggtcct caagcattcg gtggacgcca cctttgagaa ccagggtccc 120  
agccccgggt accgcatgga gatgtccatt ttctacgtcg tctactttgt ggtgttcccc 180  
ttctttctttg tcaatatctt tgtggccttg atcatcatca ccttccagga gcaaggggac 240  
aagatgatgg aggaatacag cctggagaaa aatgaggtgc cacttccaat tccatctgtc 300  
ctttaaaaaac tggggacaca cacaaacttt aaaacacaca caacaccag gaaccctttt 360  
ctaggggtac ctgggggagg gaacagaagc attgtcccaa ccgaatccag tcttcagggc 420  
agcccttcat ggagtttcag aggaaacaca tcatatagtg tatgtatcag tcagtttaga 480  
ctaggttat 489

<210> 27  
<211> 512  
<212> DNA  
<213> human

<220>  
<221> Unsure  
<222> (1)..(512)  
<223> n = g, a, c, t or u

<400> 27  
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caactgtanc tgttgggata agaaagcaat ggtgagaagg aanagaganc ccaggaatcc 120  
tggtcggggg caananaggc agagactcaa gcagaagcac ttgagaaccg cgacgagtta 180  
gacagagggt gcccggtgta cagccacctt cctcctgect ctgccgctct caccactggc 240  
ctctctcccg cagagggcct gcattgattt cgccatcagt gccaaagccgc tgaccgcaca 300  
catgccgcag aacaagcaga gcttccagta ccgcatgtgg cagttcgtgg tgtctccgcc 360  
tttcgagtac acgatcatgg ccatgatcgc cctcaacacc atcgtgctta tgatgaaggc 420  
aagtgcceca caccagcccc cagcactant taacccccac ctcgttcctg cctctacct 480  
gataaaatga aaccatttgc agatttccca ga 512

<210> 28  
<211> 411  
<212> DNA

<213> human

<220>

<221> Unsure

<222> (306)..(309)

<223> n = g, a, c, t or u

<400> 28

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tcgctgacct ctgctactcc tgcttctttc cctagttct atggggcttc tgtggcttat      180
gaaaatgccc tgcgggtgtt caacatcgcc ttcacctccc tcttctctct ggaatgtgtg      240
ctgaaagcca tggcttttgg gattctggta agtaccacct tggggctaca gctatgggct      300
tggaanaanc ccaaggggga acaatgggtc ctggatgatg gtctcccaac gtggcccca      360
gaacccaac ctcaagggtg gcttcagtat cctgcccagt ggccacagat c      411
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<210> 29

<211> 420

<212> DNA

<213> human

<400> 29

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ctgtcccggg cactccgctg atgggcaact gtgcctctaa catgcaccgg ccagcctagg      60
gggccgggaa ccaagccctc tgttggcatc tctgtcttgt gggccccat tctagaatta      120
tttccgcgat gcctggaaca tcttcgactt tgtgactgtt ctgggcagca tcaccgatat      180
cctcgtgact gagtttgggg taagtctccc tccagcttct ctctgggtga ctctgggctg      240
gacgaggcag gcggcagggg gcgggggagc ggtcccagag gcagtgtgtc ccggaagcca      300
tagctgcttg agccagcact tggccatgac cagagagggg gaactggggc cccggggaca      360
agggcagccc ctcaggaggg cattgtgggg agatgggggt aacaaagctt ggctgtaggg      420
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<210> 30

<211> 342

<212> DNA

<213> human

<400> 30

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ttaatagtgc tttctctctc cctccttatt tggggctctgg cttgcttttt tctgttggt      60
tggcttcatg taggggcctc tgtgagtggg gacagctctg agcctttggg gtgggtggat      120
ggtcaccctt ctctctccat ctcccagaa taacttcac cacctgagct ttctccgcct      180
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cttccgagct gcccggtca tcaaacttct ccgtcagggt tacaccatcc gcattcttct	240
ctggaccttt gtgcagtcct tcaaggtgag tctcgtccc tgctgctggc ccaggggctg	300
agaagacagg tgacctcat gctctggctg aatgtagaag tc	342

<210> 31  
 <211> 559  
 <212> DNA  
 <213> human

<220>  
 <221> Unsure  
 <222> (536) .. (536)  
 <223> n = g, a, c, t or u

<400> 31	
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caaccacgtg gggcagagca ctgggacaag ggaggaagac tgcaagtgcgg ctgagggacc	120
cccagcactc ttcttcattg ccttttttcc caccaggccc tgccttatgt ctgtctgctg	180
atcgccatgc tcttcttcat ctatgccatc attgggatgc aggtgagtgt cgtgtcccta	240
aggttcccag agcctcccaa ggagggcagc cacccttaga aaggggtggg tcagaggagc	300
ctggttcaca gaagcagcca tggaggttga gctgggtttc ccagaagcca ctggaggaat	360
ggcagcccct ggtcgtcacc cwmcaattcc acaggtgttt ggtaacattg gcacgcacgt	420
ggaggacgag gacagtgatg aagatgagtt ccaaatcact gagcacaata acttccggac	480
cttcttccag gccctcatgc tctcttccgg tcagaagggg acctgctctg ataatnctgt	540
ttccgtgggg tggggtgcc	559

<210> 32  
 <211> 316  
 <212> DNA  
 <213> human

<400> 32	
tcagagccat gctcactgtg tgctccactc ctgaggaggc gttggtacca gtcagggtctg	60
ggtgtccgag tctctgattt ctccctgtcc tcaggagtgc caccggggaa gcttggcaca	120
acatcatgct ttctgcctc agcgggaaac cgtgtgataa gaactctggc atcctgactc	180
gagagtgtgg caatgaattt gcttattttt actttgtttc cttcatcttc ctctgctcgt	240
ttctggtgag tctgtggaca ctgtgagggc cgtctgggct ccctaagcct ggcttccttt	300
cagggagtgg ttctgt	316



<210> 33  
 <211> 694  
 <212> DNA  
 <213> human

<220>  
 <221> Unsure  
 <222> (413)..(413)  
 <223> n = g, a, c, t or u

<400> 33  
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 tctgtccgtc tgactgtctg tacccttctc acttcactca ttcattccct cggctctctgc 180  
 cccattctct cttgggtccc ggtccccaca gatgctgaat ctctttgtcg ccgtcatcat 240  
 ggacaacttt gagtacctca cccgagactc ctccatcctg ggccccacc acctggatga 300  
 gtacgtgctg gtctgggccg agtatgacct cgcagcttgg taagaagtca cccgaatcc 360  
 tccagccaca atactcacct ctccctggaa ctggaacacg ggctaggcta ggnccccaga 420  
 ctctggagca ctgaactcct ggggctccta gcaggggtct cacaggttca gtcaggagag 480  
 aagatataag aatcatcacc cttgcatacc ccagattaaa cacgtagggt gccaacctgc 540  
 ccaaaccctg gaggactttc tgggaaatga ggagggcgtc aaccatgaga tgtctgaaga 600  
 gccctctcct cctacgagtc tctcctgtct ctactgtga agtctccaga tggtaggat 660  
 cgattagcca ggctccagga gaaaccaaca gact 694

<210> 34  
 <211> 474  
 <212> DNA  
 <213> human

<400> 34  
 aaggagggtg cctgcagtcc cgaactcgac tgacatccta cccccctggg tctccccagt 60  
 gtctgggaat gtactgggaa ttcacttgtc cccagtctct cccactcctt gaagccaggg 120  
 acaccccagc ctcgggcatc atgacctcgt tgtgtgccca gggagcccgt gtgaacccat 180  
 tgcttgact aacccccctt ctctcctt cagcggctcg attcattata aggatatgta 240  
 cagtttatta cgagtaatat ctccccctct cggcttaggc aagaaatgtc ctcatagggt 300  
 tgcttgcaag gtttgacttc cactaaaacc tgctagcatc catggaatga gtgtggcttg 360

gggttcttca atatatatat ttcatatata tatatatata tatctctctc tctctaaaaa 420  
aacagagcca tctctctttc ttgcattaaa ctagaaaact ctcttagcca acag 474

<210> 35  
<211> 413  
<212> DNA  
<213> human

<220>  
<221> Unsure  
<222> (323)..(413)  
<223> n = g, a, c, t or u

<400> 35  
cctgggtagg ggcgggcgcg gctcacggga gaccaggag ggatgcctgg gaatgactgc 60  
gcttgccctg ggttttctgt agcggcttct gcggatggac ctgcccgtcg cagatgacaa 120  
cacggtccac ttcaattcca ccctcatggc tctgatccgc acagccctgg acatcaagat 180  
tgccaagggg aaggaagga caggggaggg cacagacagg cgtgacaggg tggaactggg 240  
gatctcctcc ctaccccaaa ctagaggatc tgctgtcacc acccggatct tcattcactc 300  
ttccattcat tcgttcaca ggnntttttg gnnnttggnn ntttggtgtt tttttttttt 360  
ttttgagaca gagtcttgct ctgttgccca ggcagcagtg cggtgacatg atc 413

<210> 36  
<211> 636  
<212> DNA  
<213> human

<220>  
<221> Unsure  
<222> (332)..(332)  
<223> n = g, a, c, t or u

<400> 36  
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acgctgagct gcggaaggag atgatggcga tttggcccaa tctgtcccag aagacgctag 180  
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aggacagatg gagggggagg gaaaggggag gcctggggag agtggttggt gggctggtat 300  
acacagggac ccaggacaag gtccccaaag angcctgccc ttggtgagct caccgtgtgt 360  
gtccccagc cagggacctc accgtgggga agatctacgc agccatgatg atcatggagt 420

actaccggca gagcaaggcc aagaagctgc aggccatgcg cgaggagcag gtgcgctgtt	480
cgccgctctg gggacatctg ggctggggac agtggcttgc atgtcaccac gggaaccaac	540
tggaatatga gggtggetga gccccagggc aggtccctga aaagtagggg ctggtgcaca	600
gcagctcaca cctgcaatct cagtgccttg agaggc	636

<210> 37  
 <211> 829  
 <212> DNA  
 <213> human

<400> 37	
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gccatggagg gttctaagca aaggagggat aggacctgac tcaagtgtc atgggcgccc	120
tctgggtggct cttgtggaac agtgggggtg aaggtaggag cgggagacct gggagaaggt	180
gcctgcagtg agagatgagg acgcgggacc aggctggggc tatgacttgg gtggaggagt	240
gagaagtggg ccagttctgc gtggaattgg aagggtctag atggatgaga cctgagagag	300
tgtgtgtgtg tgtgtgtgtg tatactgggg atgtcgcaat gccttctggg taccaccgtc	360
caccacccca cccttgcca cacactgtc tctgccccat tccccaggac cggacacccc	420
tcatgttcca gcgcattgag cccccgtccc caacgcagga agggggacct ggccagaacg	480
ccctcccctc caccagctg gaccaggag gagccctgtg agtgtcacc ctgccaggga	540
gggtggagtgt ggggggtgcc tggtccccac gttctggaag ctgccaagc gccactgct	600
accccgccct ctgtcccca tgcaggatgg ctcacgaaag cggcctcaag gagagcccgt	660
cctgggtgac ccagcgtgcc caggagatgt tccagaagac gggcacatgg agtccggaac	720
aaggcccccc taccgacatg cccaacagcc agcctaactc tcaggtgcct ctgtcccca	780
actccccaat ggctcccagg gcccgggtgg ttgcgggtgga aggaaccat	829

<210> 38  
 <211> 801  
 <212> DNA  
 <213> human

<220>  
 <221> Unsure  
 <222> (161)..(161)  
 <223> n = g, a, c, t or u

<400> 38

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ggggtttcac aatgttggtc aggctgggtc cgaactgctg nccattgtga tctggaggtc	180
aggccccaga gctcatctgg ctttgccatt cgtccgcagt ccgtggagat gcgagagatg	240
ggcagagatg gctactccga cagcgagcac tacctcccca tggaaggcca gggccgggct	300
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ctggaccct cactctgcac tgggtagggc caggcccccc cacaagcagc ccagtgcac	420
ccctcctgcc ggactcaggc ctgggtaggg actccttcag tctctgaagc agtctgcagg	480
ccccaccac cacctgggtca cacctggagc acctgcagac cctcctccct cacagaggac	540
agagaggaaa gtgctcccc tggggcagag ggcagtggcc actgcaaaat ggtctctggc	600
tgccctggtt ggaggctgca gacaggggag gttgtggaar atttgtgggt gcagcagggt	660
tcaacagggc cagctgagac ctgccacgaa gawcctttga ggccaggagt ttgagaccag	720
gttgggcaac atagcaaaac cctgtctctt tttttttttt gagacggagt ttcactcttg	780
ttgccccagg ctggagtgc a	801

<210> 39

<211> 329

<212> DNA

<213> human

<220>

<221> Unsure

<222> (177) .. (177)

<223> n = g, a, c, t or u

<400> 39

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caccatccat ggggctgtga cagaggagaa ggggccggcc acgtgggaat aacctcagtg	120
tatgtacggc ctgcccaggc cccagcaggc tccggcccc tcttcctccc caccncct	180
ccaggagtc ccgtaatctc taccggctcc cggacccac ctttctttg gcaatcgac	240
cctctcccct ccatggagcc caatccttgt gtgtggtgtc ctgtgtgtgc cctgacccat	300
aagcctggtg gggcggccat ccccatcct	329

<210> 40

<211> 554

<212> DNA

<213> human

<400> 40

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gcagtcaccg aaagccacca ccaggctgac acaatggggc aggaaggacc gggaccactt    120
ggtgctagct gctgacccca gccacccggc ctgtcccctc ccccagacca tctcagacac    180
cagcccatg aagcgttcag cctccgtgct gggccccaag gcccgacgcc tggacgatta    240
ctcgctggag cgggtcccg ccgaggagaa ccagcggcac caccagcggc gccgcgaccg    300
cagccaccgc gcctctgagc gctccctggg ccgctacacc gatgtggaca caggtgggca    360
gccctgtggt gctcaggagc aagcagaaca gaggagagga gaggggagga gaaggcaggg    420
cggaggagac actaaggaag aagaaaggga gaggcctcca tggagagggg acagagcggg    480
ccaggcagcg gctgcaggaa cctgggtact accccctccc cccaaccac tgacctgcct    540
cggttcaggg gatc    554
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<210> 41

<211> 461

<212> DNA

<213> human

<400> 41

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ctgtgtgctg tctgaccctc acccggccca ggcttgggga cagacctgag catgaccacc    60
caatccgggg acctgccgtc gaaggagcgg gaccaggagc ggggccggcc caaggatcgg    120
aagcatcgac agcaccacca ccaccaccac caccaccacc atcccccgcc ccccgacaag    180
gaccgctatg cccaggaacg gccggaccac ggccgggcac gggctcggga ccagcgtgg    240
tcccgtcgc ccagcgaggg ccgagagcac atggcgccac ggcaggtggg tgcggctgca    300
agtgaccca ggctgggctc ggccgggagg cggggaggag agaaggggat accccatcca    360
acagccactc taggcaaagg tccccggatc ccggctgtga ccacctcca tctgcccc    420
aagccaccgg ggtgcccggc ggccggagcg gagcacggat c    461
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<210> 42

<211> 664

<212> DNA

<213> HUMAN

<400> 42

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ttttcattt ctcttttcac ttttgttggt ttggtttccg actcctcccc tccctgtctc    60
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tgccccccct ctctctctcc tcctctctct cccctctctc cctctctctc cgccccctct	180
cccttcgctc cctcatctt cctcccaatc ccgtgtctcc tttgattttg ttgtatcttt	240
ttttttgatt tcctttgttt caattttcgt gtagggcagt agttccgtaa gtggaagccc	300
agccccctca acatctggta ccagcactcc gcggcggggc cgccgccagc tccccagac	360
ccctccacc ccccgccac acgtgtccta tccccctgtg atccgtaagg ccggcggtc	420
ggggcccccg cagcagcagc agcagcagca gcagcagcag caggcggtgg ccaggccggc	480
cgggcggcca ccagcgggcc tcggaggtac ccaggcccca cgcccgagcc tctggccgga	540
gatcggcgcc cacggggggc cacagcagcg gccgcacgcc caggatggag aggcgggtcc	600
aggcccggcc cggagcgagt ctccagggcc tggtcgacac ggcgggggcc ggctggcggc	660
agtc	664

<210> 43  
 <211> 6789  
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